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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,449	08/25/2003	Manne Satyanarayana Reddy	BULK 3.0-026	1649
45776	7590 07/15/2005		EXAM	INER
DR. REDDY'S LABORATORIES, INC.			CHANG, CELIA C	
200 SOMERSET CORPORATE BLVD SEVENTH FLOOR,		/D	ART UNIT	PAPER NUMBER
	TER, NJ 08807-2862		1625	

DATE MAILED: 07/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/647,449	REDDY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Celia Chang	1625				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after StX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a If NO period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of the riod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 2	5 March 2004					
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closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-57 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-57 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exam	niner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
	da a da de la composição	0.440(.) (1) (0				
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. The sents have been received in a periority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		(s)/Mail Date Informal Patent Application (PTO-152) 				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

1. Claims 1-57 are in the case.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 38, 40-49 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,3,12,924 (recited on 1449).

See col. 23, lines 15-17, the non-crystalline solid after vacuo of solvent ethanol. Noncrystalline solid is amorphous and the process is the same as the claimed (see col. 23, example 4).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 34-35 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,132,924.

See col. 23, crystallized compound of the claims. Please note that one category of patentable invention is a "product". A novel or unobvious chemical product is identified first by its "chemical nature, i.e. elemental content and their rations. It was well known "fact" that "many pharmaceutical solids exhibit polymorphism which is frequently defined as the ability of a substance to exist as two or more crystalline phases that have different arrangements and/or conformations of the molecules in the crystal lattice. Thus in the strictest sense, polymorphs are different crystalline forms of the same pure substance in which the molecules have different arrangements and/or different conformations of the molecules (see Brittain p. 1-2). The term form III does not offer

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any demarcation of the product from the prior art crystalline product as represented by the compound name since form III or form A, B or C in the prior art are not notation known in the chemical art representing conventional characteristic in demarcating chemical products. Page 3

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-37, 39, 50-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grell et al. US 5,312,924 in view of Grell et al. j. Med. Chem (recited on 1449) and Brittain.

Determination of the scope and content of the prior art (MPEP §2141.01)

Grell et al. '942 disclosed compound that anticipated the base claims which was pointed out supra.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The difference between the Grell et al. disclosure and the instant dependent claims is that the physical property of the prior art product was not expressly included, or the process of making the products employed alternative solvents. Grell et al. J. Med. Chem disclosed that in making the different crystalline forms, variations of solvents are operable (see page 5227 paragraph below table 2). Brittain taught that "in the strictest sense, polymorphs are different crystalline forms of the same pure substance in which

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the molecules have different arrangements and/or different conformations of the molecules (see Brittain p. 1-2).

Finding of prima facie obviousness-rational and motivation (MPEP§2142-2143)

One having ordinary skill in the art would find the claims prima facie obvious because the instant claims differ from the known product merely by forms and the physical properties innate to the forms. As it was recognized in the art that in the pharmaceutical field, many solids exhibit polymorphism which is the innate nature of the particular drug (see US Pharmacopia #23, national formulary #18). There is nothing unobvious about the innate nature of a drug. It is also recognized in the art that the innately existed different "morph" will display different physical properties such as X-ray diffraction pattern, melting point etc. (see Brittian p. 178-179, 219). Just because it is "different" does not merit the new form patentability. As it was clearly stated by one having ordinary skill in the art in Brittain (p. 1-2) supra, as well as set forth by the court in In re Cofer 148 USPQ 268. Ex parte Hartop 139 USPQ 525, that a product which are merely different forms of known compounds, notwithstanding that some desirable results are obtained therefrom, are unpatentable. The instant specification and claims disclosed known compound S-repaglinide form III, which is the same pure substance as the prior art, only has different arrangements and/or different conformations of the molecule. Mere difference in physical property is well known conventional variation for the same pure substance (see Brittain p.1-2), i.e. prima facie obvious. For a known compound with defined chemical nature to be patentable for a new form, it must have a patentability basis of an advantage in terms of stability, formulation, solubility, bioavailability, easy of purification, preparation or synthesis, hydroscopicity, recovery or prevention of precipitation etc. (see p. 185).

The employment of different solvents in the crystallization process are art recognized conventional variation for obtaining different forms (see Grell J. Med. Chem p.5227). In absent of unexpected result it is conventionally taught that such different solvents may produce products with different physical properties which are innate to the product (please note that channel or associated solvates/hydrates are identical crystalline form with different physical properties because of the existence of solvents/water).

5. Claims 8-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The pharmaceutical formulation field is well aware of that polymorphs when being formulated into compositions may undergo transformation thus, the particular form may not be the same form after processing, compressing etc. (see Rouhi Chem. Eng. New, see p. 34-35). Therefore, in absence of any description or factual evidence, the

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specification lacks description and enablement that the pharmaceutical composition contains the claimed "form" without transformation. There is no factual basis provided in the specification as to support the transformation of less than 1-5% as found in claims 9-14. No description nor enabling support can be found as to how such limited transformation can be operable, i.e. temperature, pressure, carrier, etc.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celia Chang whose telephone number is 571-272-0679. The examiner can normally be reached on Monday through Thursday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

OACS/Chang July 13, 2005 Celia Chang Primary Examiner Art Unit 1625 Page 5